

POWER OF ATTORNEY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Ruddy *et al.*

Confirmation No.: 7064

Serial No.: 08/852,495

Art Unit: 1634

Filed: May 7, 1997

Examiner: Goldberg, Jeanine

For: POLYMORPHISMS IN THE REGION OF THE
HUMAN HEMOCHROMATOSIS GENE

Attorney Docket No: 8907-057-999

REVOCATION AND POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Bio-Rad Laboratories, Inc., Assignee, hereby revokes any and all previous powers and appoints:

☒ Practitioners at Customer Number 20583

as its attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please direct all correspondence address for the above-identified application to:

☒ The above mentioned Customer Number.

☒ Firm or Individual Name:

Address: Jones Day, 222 East 41st Street, New York, New York 10017

Telephone: (212) 326-3939

I am the:

- ☐ Applicant/Inventor
☒ Assignee of record of the entire interest. See 37 CFR 3.71.
(Statement under 37 CFR 3.73(b) is applicable)

SIGNATURE of Applicant or Assignee of Record			
Date:	8-25-04	Signature:	
		Typed Name:	John J. Cassingham
		Position/Title:	Patent Counsel and Assistant Secretary
		Assignee:	Bio-Rad Laboratories, Inc.

Statement Under 37 C.F.R. 3.73(b)

Bio-Rad Laboratories, Inc., states that it is:

- ☒ the assignee of the entire right, title, and interest; or
☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is %

in the patent application/patent identified above by virtue of either:

- ☒ An assignment from the inventor(s) of the patent application/patent identified above, a copy which is attached hereto.

OR

- ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: To:
The document was recorded in the United States Patent and Trademark Office on at
Reel , Frame , or for which a copy thereof is attached.

2. From: To:
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3. From: To:
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at Reel , Frame , or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.
[Note: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.


ASSIGNEE:

Bio-Rad Laboratories, Inc.

Date:

8-25-04

Signature:



Typed Name:

John J. Cassingham

Position/Title:

Patent Counsel and Assistant Secretary

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required.

☒ Total of 1 form is submitted.



017957-00011045
UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
RAF

JANUARY 13, 1998

PTAS
TOWNSEND AND TOWNSEND AND CREW LLP
RENEE A. FITTS
TWO EMBARCADERO CENTER, 8TH FLOOR
SAN FRANCISCO, CA 94111-3834



100581245A

8907-057-999

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/19/1997

REEL/FRAME: 8813/0560
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RUDDY, DAVID A.

DOC DATE: 11/11/1997

ASSIGNOR:

WOLFF, ROGER K.

DOC DATE: 11/07/1997

ASSIGNEE:

MERCATOR GENETICS, INC.
4040 CAMPBELL AVENUE
MENLO PARK, CALIFORNIA 94025

SERIAL NUMBER: 08852495
PATENT NUMBER:

FILING DATE: 05/07/1997
ISSUE DATE:

SHIRLIE SIMON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

RECEIVED
98 JAN 26 AM 8:50
TOWNSEND & TOWNSEND
& CREW

2-03-1997

Attorney Docket No. 17957-000110U

FORM PTO-1595
(Rev. 6-93)COVER SHEET
JULYU.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Asst. Commissioner of Patents, Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

David A. Ruddy
Roger K. Wolff

2. Name and address of receiving party(ies):

Name: Mercator Genetics, Inc.

Internal Address:

Street Address: 4040 Campbell Avenue

City: Menlo Park State: CA ZIP: 94025

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other:

Execution Date: 11/11/97, 11/7/97

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s).

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 08/852,495

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Renee A. Fitts
TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
(650) 326-2400

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):..... \$ 40.00



Enclosed



Charge Fees to Deposit Account



Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account

8. Deposit account number: 20-1430

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Renee A. Fitts

Name of Person Signing

Signature

Date

Atty. Reg. No. 35,136

Total number of pages including cover sheet, attachments, and documents: 2

10. Change Correspondence Address to that of Part 5? ☒ Yes ☐ No

OMB No. 0651-0011 (exp. 4/94)

Mail documents to be recorded with required cover sheet information to:

Do not detach this portion

Asst. Commissioner for Patents
Box Assignments
Washington, D.C. 20231

08/02/97

DOB: 201430

00000000

12/02/1997

01 FC:581

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, David A. Ruddy of 885 Greenwich Street, San Francisco, CA 94133, and Roger K. Wolff of 41 Eugene Street, Mill Valley, CA 94941, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of the Invention: **Polymorphisms in the Human Hemochromatosis Gene**

Filing date: May 7, 1997 Application No.: 08/852,495; and

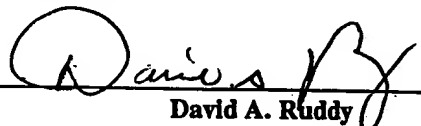
WHEREAS, Mercator Genetics, Inc. a California corporation, located at 4040 Campbell Avenue, Menlo Park, CA 94025, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Date: 11/11/97


David A. Ruddy

Date: 11/7/97


Roger K. Wolff



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MAY 04, 1999

PTAS

PENNIE & EDMONDS
BRIAN M. POISSANT
1155 AVENUE OF THE AMERICAS
NEW YORK, NY 10036



100961528A

OK

**UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/29/1999

REEL/FRAME: 9739/0165
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MERCATOR GENETICS, INC.

DOC DATE: 01/27/1999

ASSIGNEE:

PROGENITOR, INC.
4040 CAMPBELL AVENUE
MENLO PARK, CALIFORNIA 94025

SERIAL NUMBER: 08852495

PATENT NUMBER:

FILING DATE: 05/07/1997
ISSUE DATE:

MAURICE CARTER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

NKS-244

REFERRED TO _____ REC'D
MAY 13 1999
Pennie & Edmonds O.K. for filing _____

ASSIGNMENT

WHEREAS, Mercator Genetics, Inc., ASSIGNOR, a corporation organized and existing under the laws of California, U.S.A., and having a place of business at 4040 Campbell Avenue, Menlo Park, CA 94025, is the owner of the entire right, title and interest in, and to, application for United States Letters Patent, in the names of David A. Ruddy and Roger K. Wolff for *Polymorphisms in the Region of the Human Hemochromatosis Gene*; and of the invention therein described; and

- ☑ which is identified by Pennie & Edmonds LLP docket no. 8907-0057-999
- ☑ which was filed on May 7, 1997 as Application No. 08/852,495

and WHEREAS, Progenitor, Inc., ASSIGNEE, a corporation organized and existing under the laws of Delaware, U.S.A., and having a place of business at 4040 Campbell Avenue, Menlo Park, CA 94025, is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 27 day of January, 1999.

Mercator Genetics, Inc.

By: Douglas B. Given, President

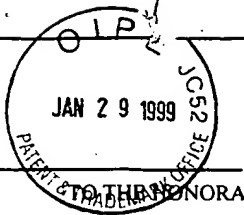
L.S.

State of California)
County of San Mateo) SS.:

On this 27th day of January, 1999, before me, a Notary Public in and for the State and County aforesaid, personally appeared Douglas B. Given, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.



Susan J. Keyser
Notary Public.



RECORDATION FORM COVER SHEET

PATENTS ONLY

02-08-1999

Attorney Docket Number

8907-057-999

TRADEMARKS



100961528

Please rec.

original documents or copy thereof.

1. Name of conveying party(ies):

Mercator Genetics, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: January 27, 1999

2. Name and address of receiving party(ies):

Name: Progenitor, Inc.

Address: 4040 Campbell Avenue
Menlo Park, CA 94025

Country (if other than USA):

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 08/852,495

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

PENNIE & EDMONDS LLP
1155 Avenue of the Americas
New York, NY 10036

6. Number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00
Please charge to the deposit account listed in Section 8.

8. Deposit account number:

16-1150

02/05/1999 JSHBAZZ 00000010 161150 00852495

01 FC:581 40.00 CH

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Brian M. Poissant, Reg. No. 28,462

Name of Person Signing Reg. No.

Signature

by Victor M. Lee
Reg. No. 35,750

Date

January 29, 1999

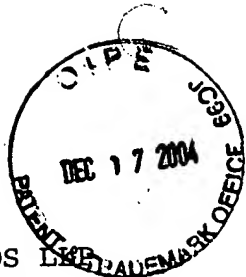
Total number of pages including cover sheet:

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Washington, D.C. 20231

MAY 08, 2000

PENNIE & EDMONDS LLP
BRIAN M. POISSANT
1155 AVENUE OF THE AMERICAS
NEW YORK, NY 10036



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Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



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RECORDATION DATE: 02/04/2000

REEL/FRAME: 010598/0014
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
PROGENITOR, INC.

DOC DATE: 03/24/1999

ASSIGNEE:
BIO-RAD LABORATORIES, INC.
1000 ALFRED NOBEL DRIVE
HERCULES, CALIFORNIA 94547

✓ SERIAL NUMBER: 09497957 8907-046
PATENT NUMBER:

FILING DATE: 02/04/2000
ISSUE DATE:

✓ SERIAL NUMBER: 08436074 8907-046
PATENT NUMBER: 5753438

FILING DATE: 05/08/1995
ISSUE DATE: 05/19/1998

✓ SERIAL NUMBER: 08599252 8907-049
PATENT NUMBER: 5705343

FILING DATE: 02/09/1996
ISSUE DATE: 01/06/1998

✓ SERIAL NUMBER: 08632673 8907-053
PATENT NUMBER: 5712098

FILING DATE: 04/16/1996
ISSUE DATE: 01/27/1998

RECEIVED
PENNIE & EDMONDS

MAY 24 2000
NAM - 277
CA OFFICE

REFERRED TO <u>Bivona/Muck</u> REC'D
MAY 22 2000
Pennie & Edmonds O.K. for filing

SERIAL NUMBER: 08652265 8907-053
PATENT NUMBER: 6025130

FILING DATE: 05/23/1996 ✓
ISSUE DATE: 02/15/2000 ✓

SERIAL NUMBER: 08724394 8907-054
PATENT NUMBER: 5872237

FILING DATE: 10/01/1996 ✓
ISSUE DATE: 02/16/1999 ✓

SERIAL NUMBER: 08834497 8907-056
PATENT NUMBER:

FILING DATE: 04/04/1997 ✓
ISSUE DATE:

SERIAL NUMBER: 08852495 8907-057
PATENT NUMBER:

FILING DATE: 05/07/1997 ✓
ISSUE DATE:

SERIAL NUMBER: 08867010 8907-058
PATENT NUMBER: 08867010

FILING DATE: 06/02/1997 ✓
ISSUE DATE:

SERIAL NUMBER: 08920559 8907-062
PATENT NUMBER:

FILING DATE: 08/27/1997 ✓
ISSUE DATE:

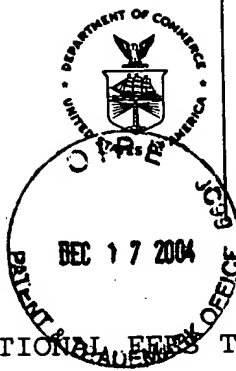
SERIAL NUMBER: 09094964 8907-074
PATENT NUMBER:

FILING DATE: 06/12/1998 ✓
ISSUE DATE:

SERIAL NUMBER: 09216077 8907-076
PATENT NUMBER:

FILING DATE: 12/18/1998 ✓
ISSUE DATE:

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



101287450B

AUTHORIZATION TO CHARGE ADDITIONAL FEES TO DEPOSIT ACCOUNT

MAY 08, 2000

TO: OFFICE OF FINANCE
FROM: ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS
SUBJECT: DEPOSIT ACCOUNT CHARGE(S)

CHARGE THE DEPOSIT ACCOUNT LISTED BELOW ADDITIONAL FEE(S) AS INDICATED
BELOW. AUTHORIZATION TO CHARGE ADDITIONAL FEES HAS BEEN PROVIDED PER
THE ATTACHED COVER SHEET, OR BY DIRECT CONTACT WITH THE CUSTOMER.

DEPOSIT ACCOUNT NUMBER: 116115
PROPERTY NUMBER: 09497957

RECORDING FEES:

FEE CODE: 581 AMOUNT: 40

IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, YOU MAY CONTACT
THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

TRADEMARK SERVICE FEES:

FEE CODE:

RECORDING FIRST MARK	481
RECORDATION SECOND AND SUBSEQUENT MARK IN SAME DOCUMENT	482
LABOR CHARGES FOR SERVICES PER HOURS OR FRACTION THEREOF	484
UNSPECIFIED OTHER SERVICES	485

PATENT SERVICE FEES:

RECORDING EACH PATENT ASSIGNMENT,	581
-----------------------------------	-----

AGREEMENT, OTHER PAPER, PER PROPERTY	
LABOR CHARGES FOR SERVICES PER HOUR	584
(\$30) OR FRACTION THEREOF	
UNSPECIFIED OTHER SERVICES	585

successors and assigns, to obtain and enforce proper patent protection for the invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by BIO-RAD, its successors and assigns.

IN WITNESS WHEREOF, each party has caused its authorized representative to execute this Assignment.

PROGENITOR, INC.

By: 

Name: Mark Baghall

Title: Vice President and Chief Financial Officer

Date: 3/24/99

03-14-2000

ET

Attorney Docket Numbers

; 8907-049-999; 8907-052-999; 8907-053-999;
); 8907-056-999; 8907-057-999; 8907-059-999;
 8907-062-999; 8907-074-999; 8907-076-999

24-00

101287450

TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS

Box Assignment
 Washington, DC 20231

Please record the attached original documents or copy thereof.

1c675 U.S. PTO
 09/197957

1. Name of conveying party(ies):

Progenitor, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: Bio-Rad Laboratories, Inc.

Address: 1000 Alfred Nobel Drive
Hercules, CA 94547

Country (if other than USA): _____

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: March 24, 1999

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

08/436,074 (now US 5,753,438); 08/599,252 (now US
5,705,343); 08/632,673 (now US 5,712,098); 08/652,265,
08/724,394 (now US 5,872,237); 08/834,497; 08/852,495;
08/867,010; 08/920,559; 09/094,964; 09/216,077

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

PENNIE & EDMONDS LLP
 1155 Avenue of the Americas
 New York, NY 10036

6. Number of applications and patents involved: 11

7. Total fee (37 CFR 3.41): \$ 440.00
 Please charge to the deposit account listed in Section 8.

8. Deposit account number:
16-1150

03/09/2000 DNGUYEN 00000143 161150 09497957

01 FC:58 40.00 CH

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Brian M. Poissant 28,462

Name of Person Signing Reg. No.

Signature

Date

Total number of pages including cover sheet:

5

ASSIGNMENT

WHEREAS, Progenitor, Inc., a Delaware corporation having offices at 4040 Campbell Avenue, Menlo Park, California 94025 ("PROGENITOR"), owns, by assignment, all right, title, and interest in those patents and patent applications set forth on Exhibit A hereto and all inventions claimed therein (the "PROGENITOR PATENTS"); and Bio-Rad Laboratories, Inc., a Delaware corporation having offices at Corporate Offices, 1000 Alfred Nobel Drive, Hercules, California 94547 ("BIO-RAD"), desires to acquire PROGENITOR's entire right, title, and interest in and to the PROGENITOR PATENTS.

NOW THEREFORE, be it known that, in consideration of one dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, PROGENITOR hereby sells, assigns, transfers, and sets over to BIO-RAD, its lawful successors and assigns, PROGENITOR's entire right, title, and interest in and to the PROGENITOR PATENTS and all inventions disclosed therein, and all letters patent of the United States that may be granted thereon, and all reissues, reexaminations, and extensions thereof; and all rights to claim priority on the basis of all such patents and patent applications, and all applications for letters patent claiming priority from the PROGENITOR PATENTS that have been or may be filed in any foreign country and all such letters patent that may be granted thereon in any foreign country, and all extensions, renewals, and reissues thereof; and PROGENITOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all letters patent for this invention to BIO-RAD, its successors and assigns, in accordance with the terms of this Assignment;

AND, PROGENITOR HEREBY further covenants that PROGENITOR has the full right to convey the interest assigned by this Assignment, PROGENITOR will take all action and execute all documents necessary to perfect the interest assigned hereby, and PROGENITOR has not executed and will not execute any agreement in conflict with this Assignment;

AND, PROGENITOR HEREBY further covenants and agrees that PROGENITOR, through its officers and employees, will, without further consideration, communicate with BIO-RAD, its successors and assigns, any facts known to PROGENITOR and its officers and employees respecting the invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to the invention in said BIO-RAD, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths, and generally do everything possible to aid BIO-RAD, its



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MARCH 31, 2000

PTAS

PENNIE & EDMONDS LLP
BRIAN M. POISSANT
1155 AVENUE OF THE AMERICAS
NY, NY 10036



101247536A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/06/2000

REEL/FRAME: 010489/0178
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
PROGENITOR, INC.

DOC DATE: 03/24/1999

ASSIGNEE:
BIO-RAD LABORATORIES, INC.
1000 ALFRED NOBEL DRIVE
HERCULES, CALIFORNIA 94547

SERIAL NUMBER: 08436074 ✓ 8907-046
PATENT NUMBER: 5753438 ✓

FILING DATE: 05/08/1995
ISSUE DATE: 05/19/1998

SERIAL NUMBER: 08599252 ✓ 8907-049
PATENT NUMBER: 5705343 ✓

FILING DATE: 02/09/1996
ISSUE DATE: 01/06/1998

SERIAL NUMBER: 08632673 ✓ 8907-052
PATENT NUMBER: 5712098 ✓

FILING DATE: 04/16/1996
ISSUE DATE: 01/27/1998

SERIAL NUMBER: 08652265 ✓ 8907-053 ?
PATENT NUMBER: 6025130 ✓

FILING DATE: 05/23/1996
ISSUE DATE: 02/15/2000

RECEIVED
PENNIE & EDMONDS

APR 07 2000

CA OFFICE

REFERRED TO <i>Kyera/10/2/2000</i> REC'D
APR 06 2000
Pennie & Edmonds O.K. for filing _____

SERIAL NUMBER: 08724394-8907-054 99
PATENT NUMBER: 5872237/

FILING DATE: 10/01/1996
ISSUE DATE: 02/16/1999

SERIAL NUMBER: 08834497 8907-056 999
PATENT NUMBER:

FILING DATE: 04/04/1997
ISSUE DATE:

SERIAL NUMBER: 08852495 ✓ 8907-057 999
PATENT NUMBER:

FILING DATE: 05/07/1997
ISSUE DATE:

SERIAL NUMBER: 08867010 ✓ 8907-059 999
PATENT NUMBER:

FILING DATE: 06/02/1997
ISSUE DATE:

SERIAL NUMBER: 08920559 8907-062 999?
PATENT NUMBER:

FILING DATE: 08/27/1997
ISSUE DATE:

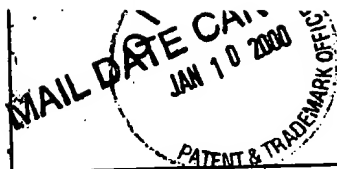
SERIAL NUMBER: 09094964 ✓ 8907-071 999
PATENT NUMBER:

FILING DATE: 06/12/1998
ISSUE DATE:

SERIAL NUMBER: 09216077 8907-076 999?
PATENT NUMBER:

FILING DATE: 12/18/1998
ISSUE DATE:

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



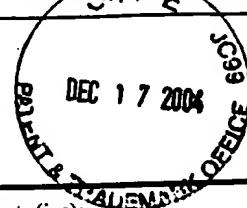
1/26/00

10124755

Attorney Docket Numbers

8907-046-999; 8907-049-999; 8907-052-999; 8907-053-999;
8907-054-999; 8907-056-999; 8907-057-999; 8907-059-999;
8907-062-999; 8907-074-999; 8907-076-999

TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS
Box Assignment
Washington, DC 20231



Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Progenitor, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: Bio-Rad Laboratories, Inc.

Address: 1000 Alfred Nobel Drive
Hercules, CA 94547

Country (if other than USA): _____

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other _____

Execution Date: March 24, 1999

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

08/436,074 (now US 5,753,438); 08/599,252 (now US
5,705,343); 08/632,673 (now US 5,712,098); 08/652,265,
08/724,394 (now US 5,872,237); 08/834,497; 08/852,495;
08/867,010; 08/920,559; 09/094,964; 09/216,077

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

PENNIE & EDMONDS LLP
1155 Avenue of the Americas
New York, NY 10036

6. Number of applications and patents involved: 11

7. Total fee (37 CFR 3.41):\$ 440.00
Please charge to the deposit account listed in Section 8.

8. Deposit account number:
16-1150

01/16/2000 DNGUYEN 00000103 161150 08436074

01 F0:581 440.00 CH

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Brian M. Poissant

28,462

Name of Person Signing

Reg. No.

Signature

Date

Total number of pages including cover sheet:

5

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignment
Washington, D.C. 20231

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successors and assigns, to obtain and enforce proper patent protection for the invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by BIO-RAD, its successors and assigns.

IN WITNESS WHEREOF, each party has caused its authorized representative to execute this Assignment.

PROGENITOR, INC.

By: 

Name: Mark Baghall

Title: Vice President and Chief Financial Officer

Date: 3/24/99

EXHIBIT A
TO
ASSIGNMENT
BETWEEN PROGENITOR, INC. AND BIO-RAD LABORATORIES, INC.

I. U.S. PATENTS AND PATENT APPLICATIONS

<u>Inventor</u>	<u>Serial No.</u>	<u>Filed</u>	<u>Title</u>
Drayna et al.	08/436,074	05/08/95	Method to Diagnose Hereditary Hemochromatosis
Drayna et al.	08/599,252	02/09/96	Method to Diagnose Hereditary Hemochromatosis
Tsuchihashi et al.	08/632,673	04/16/96	Hereditary Hemochromatosis Diagnostic Markers and Diagnostic Methods
mas et al.	08/652,265	05/23/96	Hereditary Hemochromatosis Gene
Feder et al.	08/724,394	10/01/96	Megabase Transcript Map: Novel Sequences and Antibodies Thereeto
Thomas et al.	08/834,497	04/04/97	Hereditary Hemochromatosis Gene
Ruddy and Wolff	08/852,495	05/07/97	Polymorphisms in the Region of the Human Hemochromatosis Gene
Feder et al.	08/876,010	06/13/97	Methods and Compositions for Diagnosis and Treatment of Iron Overload Diseases
Feder et al.	08/920,559	08/27/97	Methods and Compositions for Diagnosis and Treatment of Iron Misregulation Diseases
Feder et al.	09/094,964	06/12/98	Methods and Compositions for Diagnosis and Treatment of Iron Overload Diseases and Iron Deficiency Diseases
Feder et al.	09/216,077	12/18/98	Peptides and Peptide Analogues Designed from HFE Protein and Their Uses in the Treatment of Iron Overload Disease

*D Given
DOUGLASS GIVEN
PRESIDENT
PROGENITOR, INC
5/31/00*

II. FOREIGN PATENTS AND PATENT APPLICATIONS

<u>Country</u>	<u>Application No.</u>	<u>Filed</u>
Canada	2,220,293	05/08/96
Australia	58559/96	05/08/96
South Africa	96/3639	05/08/96
EPO	96920167.2	05/08/96
U.S.	PCT/US96/06583	05/08/95
South Africa	97/6370	03/19/97
South Africa	97/8804	10/01/97
PCT	PCT/US97/17658	09/30/97
Canada		04/04/97
Australia	26701/97	04/04/97
EPO	97918642.6	04/04/97
U.S.	PCT/US97/06254	04/04/97
PCT	PCT/US98/12436	06/12/98